

HCV Molecular Immunology: Maps of CTL Epitope Locations Plotted by Protein

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All HCV CTL epitopes mapped to within a region of 21 amino acids or less are indicated on the HCV protein epitope maps. The location and HLA restriction elements of CTL epitopes are indicated on protein sequences of H77. These maps are meant to provide the relative location of defined epitopes on a given protein, but the H77 sequence may not actually carry the epitope of interest, as it may vary relative to the sequence for which the epitope was defined. Epitopes with identical boundaries and HLA fields are included in the maps only once. If one laboratory determines HLA presenting molecules at the serotype level (example: A2) and another at the genotype level (example: A*0201) both will be included in the map. MHC specificities are indicative of the host species; when no MHC presenting molecule is defined, the host species is noted.

1 Core CTL Epitope Map

Figure 1: Core CTL Map 1, aa 1-50

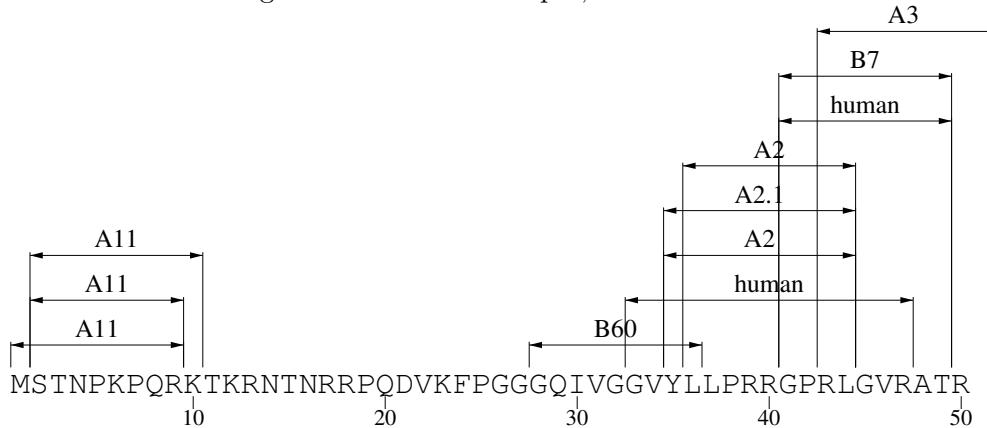


Figure 2: Core CTL Map 2, aa 51-100

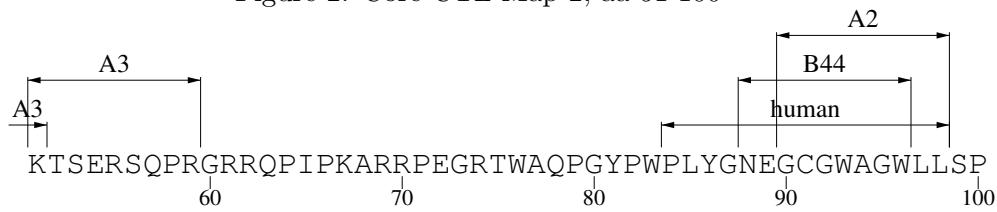


Figure 3: Core CTL Map 3, aa 101-150

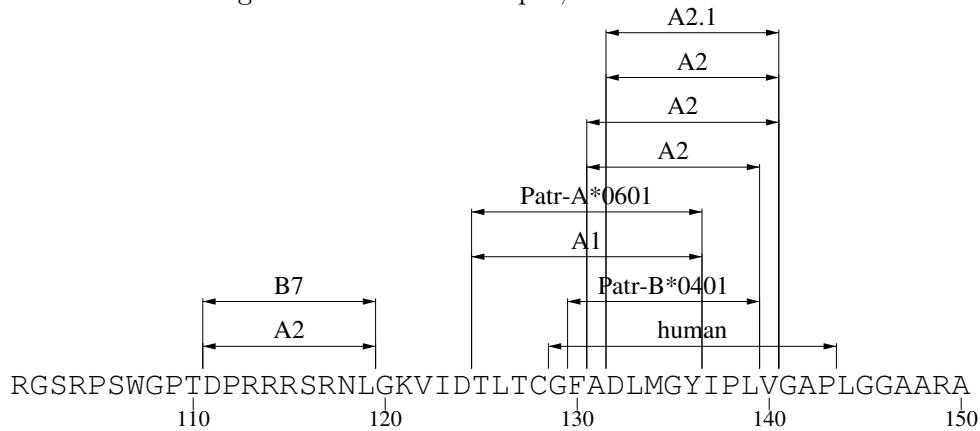
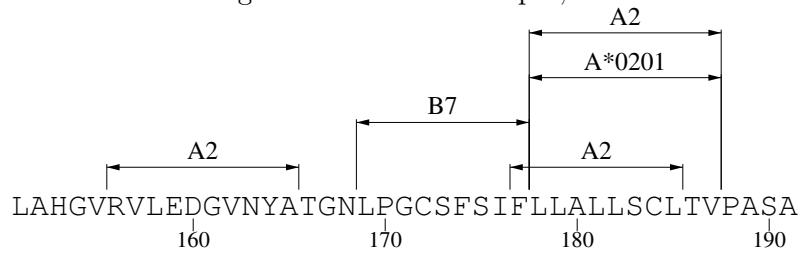


Figure 4: Core CTL Map 4, aa 151-191



2 E1 CTL Epitope Map

Figure 5: E1 CTL Map 1, aa 192-241

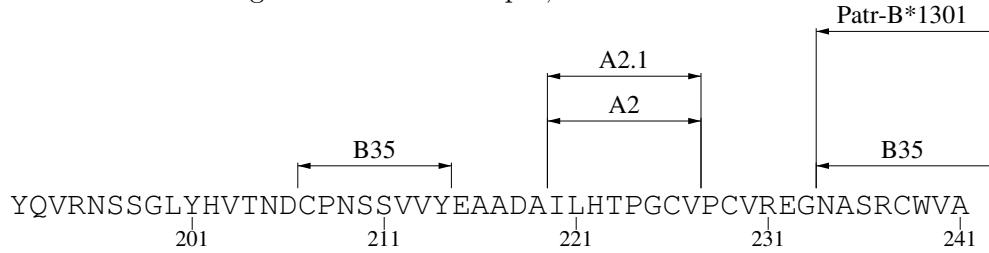


Figure 6: E1 CTL Map 2, aa 242-291

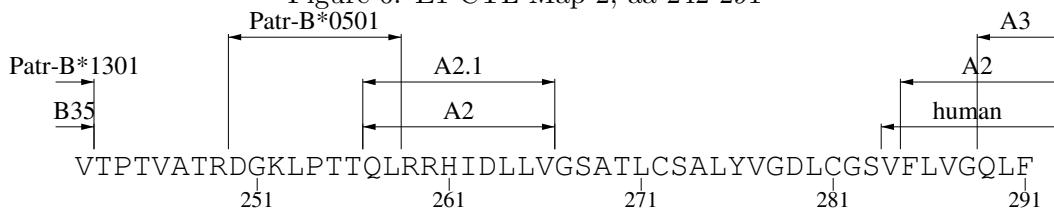


Figure 7: E1 CTL Map 3, aa 292-341

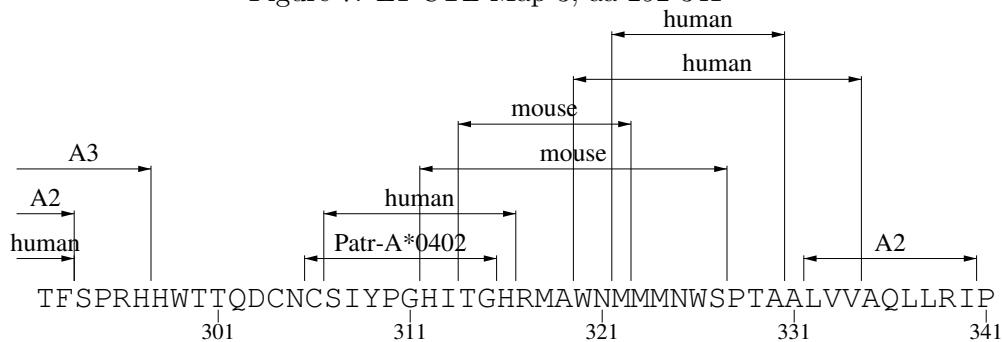
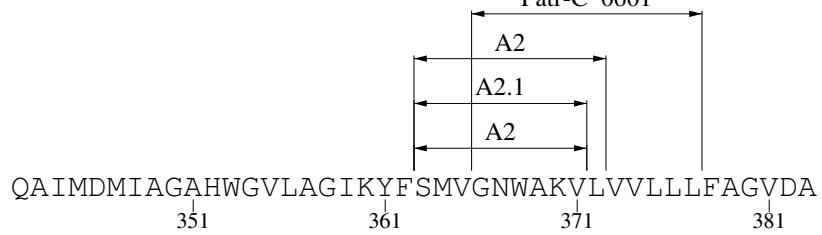


Figure 8: E1 CTL Map 4, aa 342-383
Patr-C*0601



3 E2 CTL Epitope Map

Figure 9: E2 CTL Map 1, aa 384-433

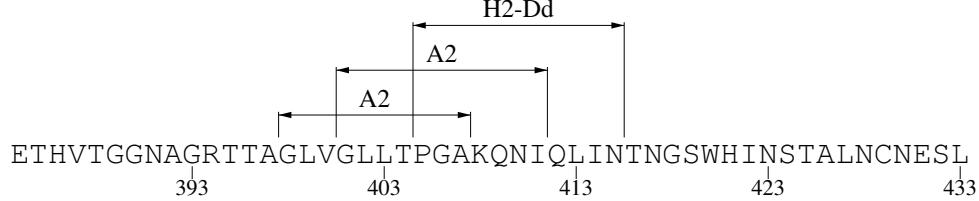


Figure 10: E2 CTL Map 2, aa 434-483

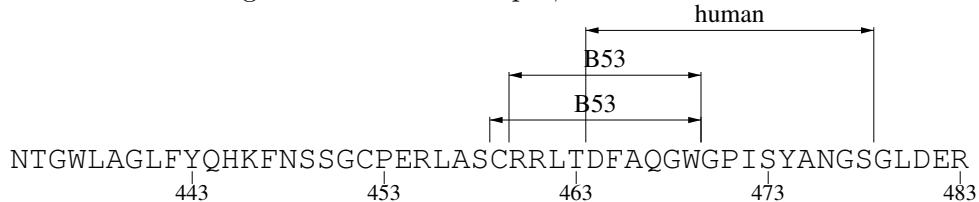


Figure 11: E2 CTL Map 3, aa 484-533

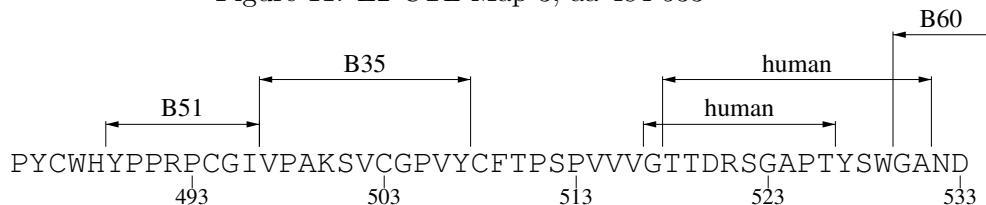


Figure 12: E2 CTL Map 4, aa 534-583

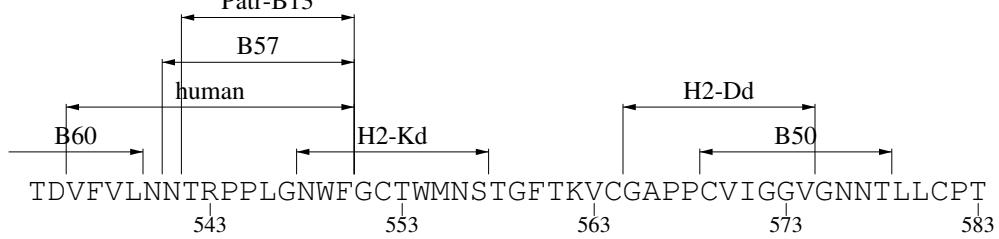


Figure 13: E2 CTL Map 5, aa 584-633

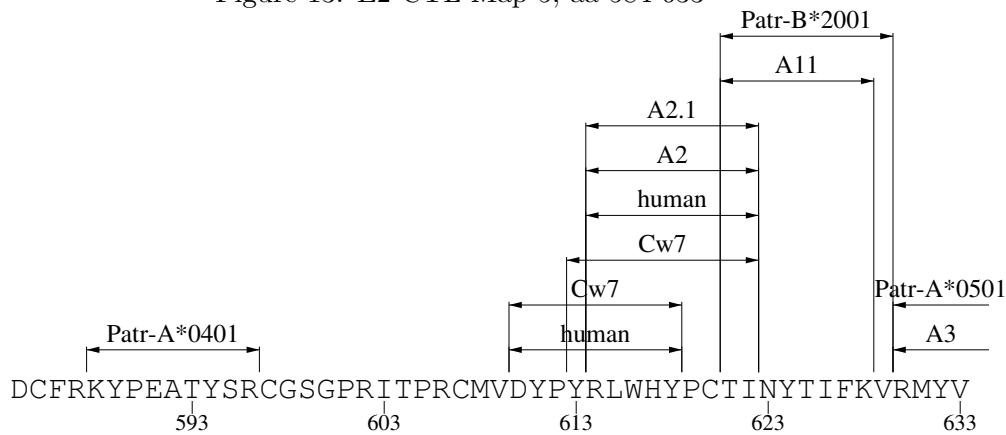


Figure 14: E2 CTL Map 6, aa 634-683

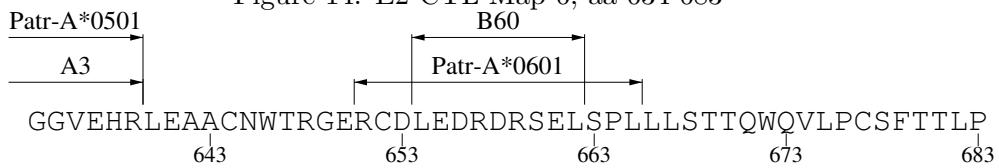


Figure 15: E2 CTL Map 7, aa 684-733

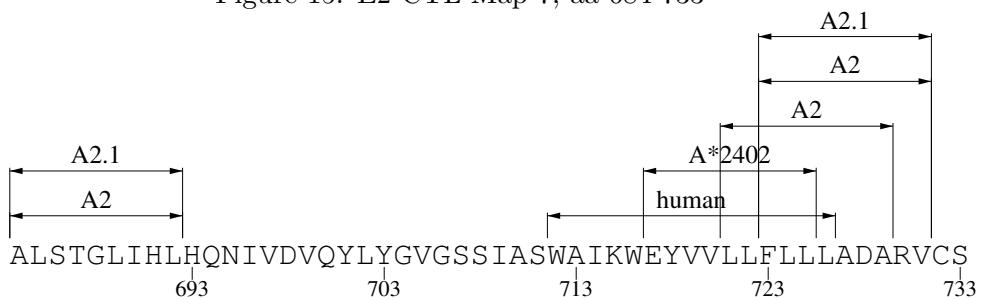


Figure 16: E2 CTL Map 8, aa 734-746

CLWMMMLLISQAEA
743

4 p7 CTL Epitope Map

Figure 17: p7 CTL Map 1, aa 747-796

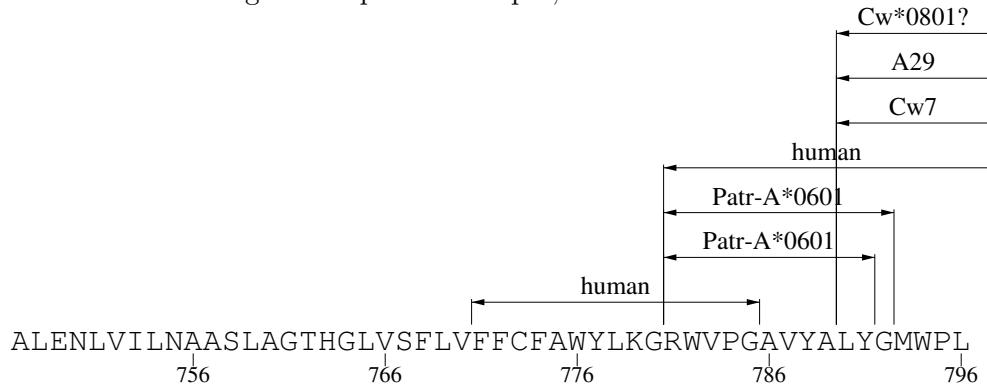
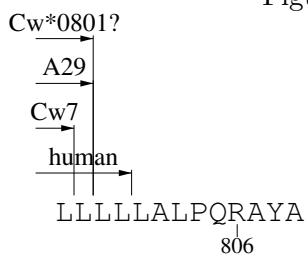


Figure 18: p7 CTL Map 2, aa 797-809



5 NS2 CTL Epitope Map

Figure 19: NS2 CTL Map 1, aa 810-859

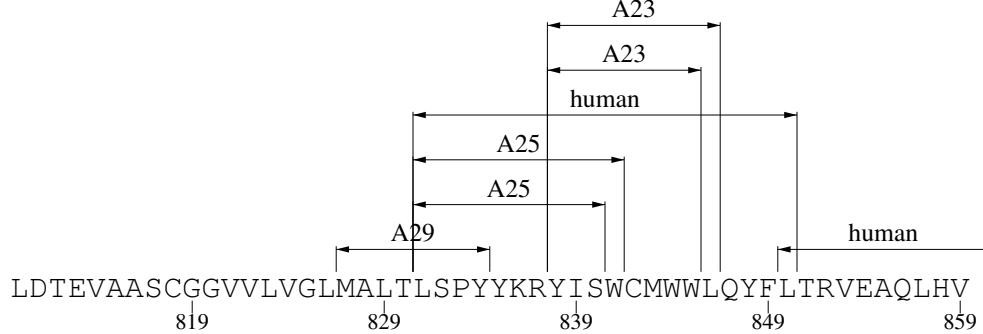


Figure 20: NS2 CTL Map 2, aa 860-909

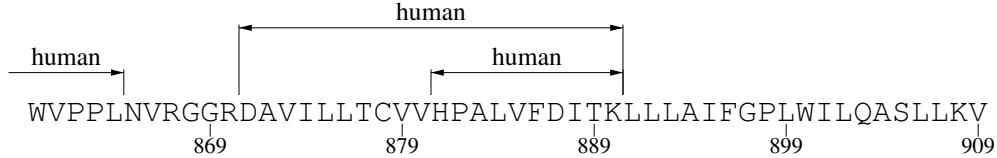


Figure 21: NS2 CTL Map 3, aa 910-959

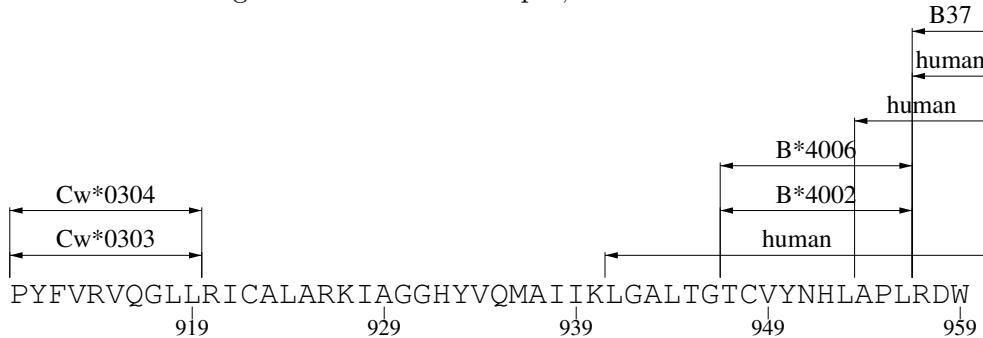


Figure 22: NS2 CTL Map 4, aa 960-1009

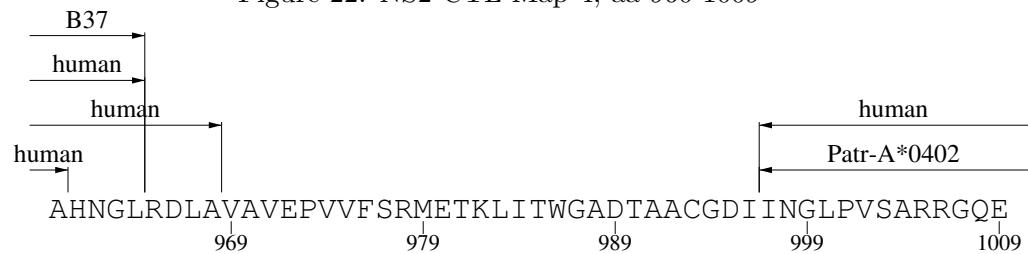
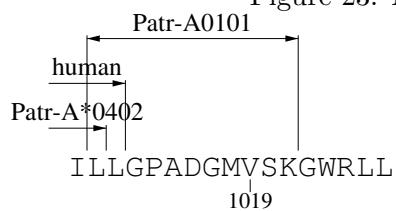


Figure 23: NS2 CTL Map 5, aa 1010-1026



6 NS3 CTL Epitope Map

Figure 24: NS3 CTL Map 1, aa 1027-1076

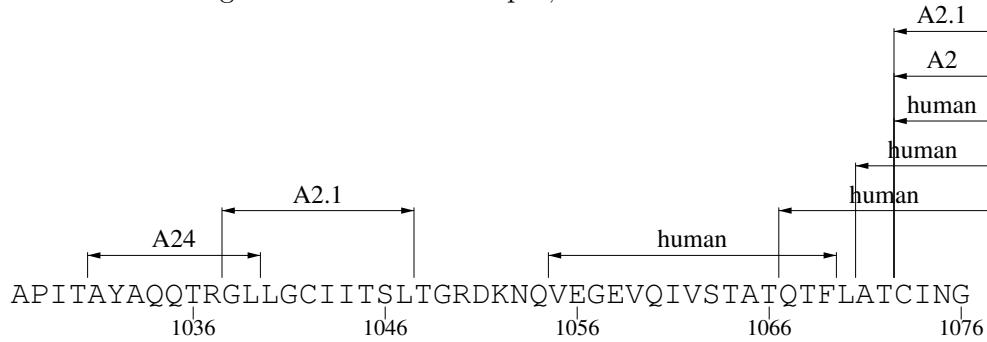


Figure 25: NS3 CTL Map 2, aa 1077-1126

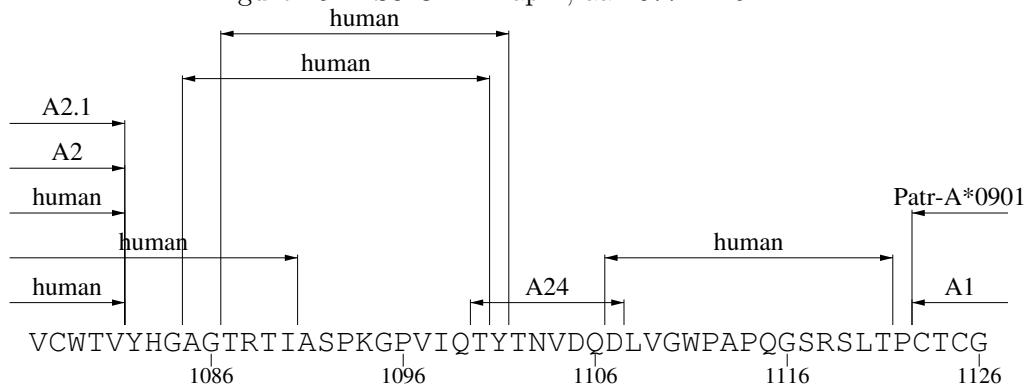


Figure 26: NS3 CTL Map 3, aa 1127-1176

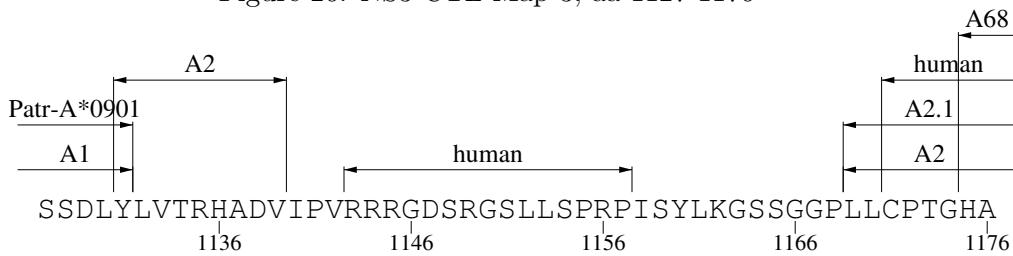


Figure 27: NS3 CTL Map 4, aa 1177-1226

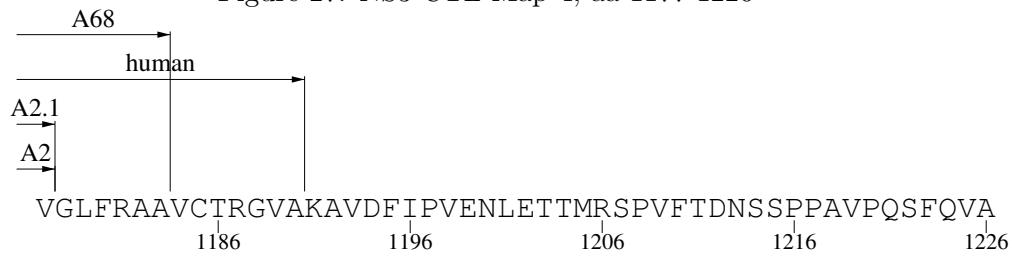


Figure 28: NS3 CTL Map 5, aa 1227-1276

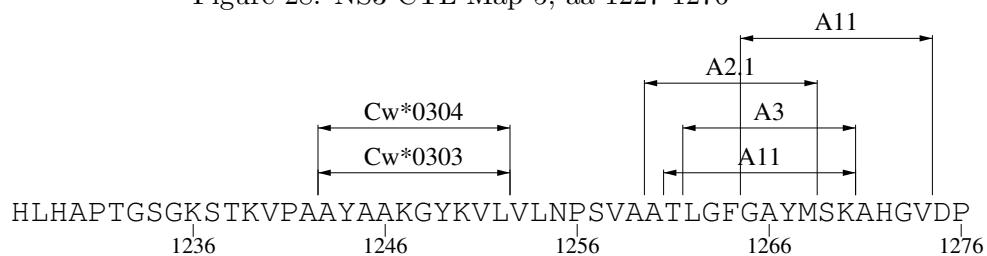


Figure 29: NS3 CTL Map 6, aa 1277-1326

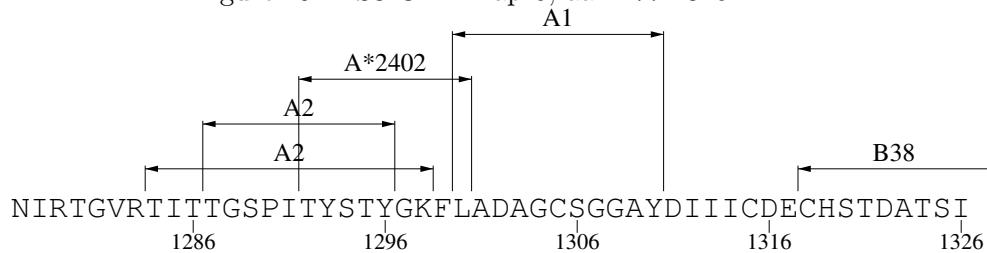


Figure 30: NS3 CTL Map 7, aa 1327-1376

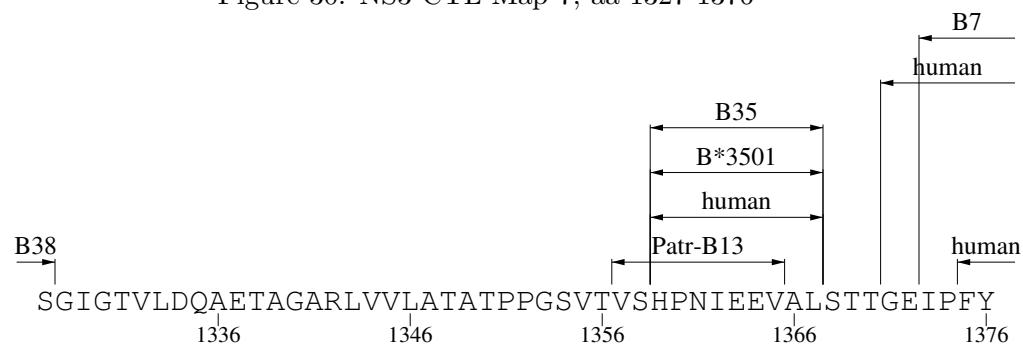


Figure 31: NS3 CTL Map 8, aa 1377-1426

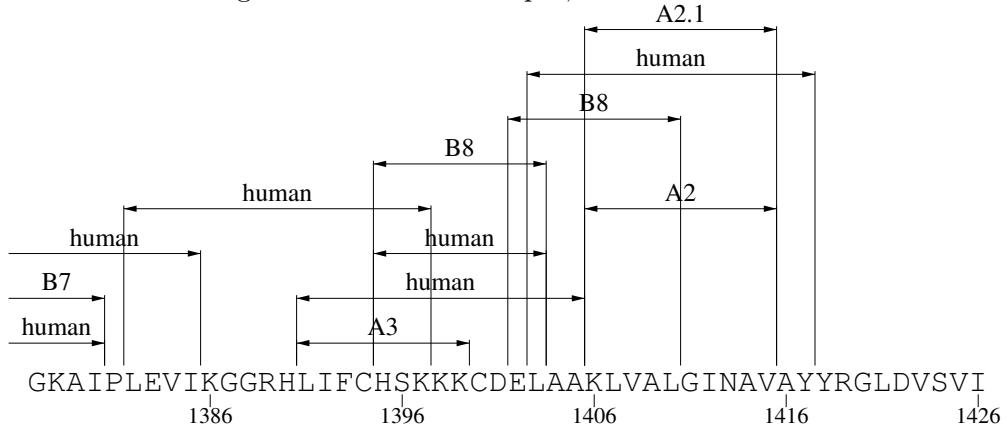


Figure 32: NS3 CTL Map 9, aa 1427-1476

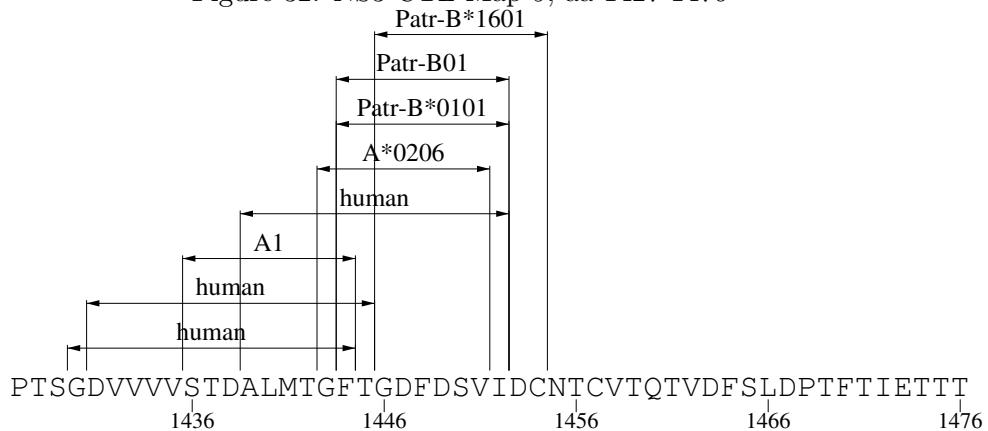


Figure 33: NS3 CTL Map 10, aa 1477-1526

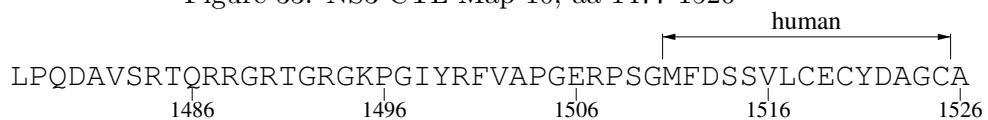


Figure 34: NS3 CTL Map 11, aa 1527-1576

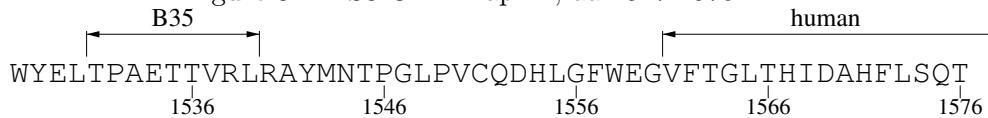


Figure 35: NS3 CTL Map 12, aa 1577-1626

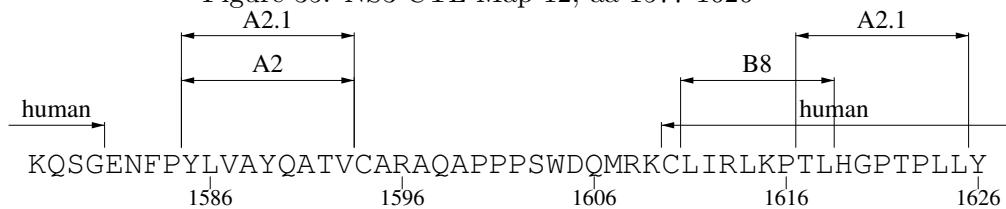
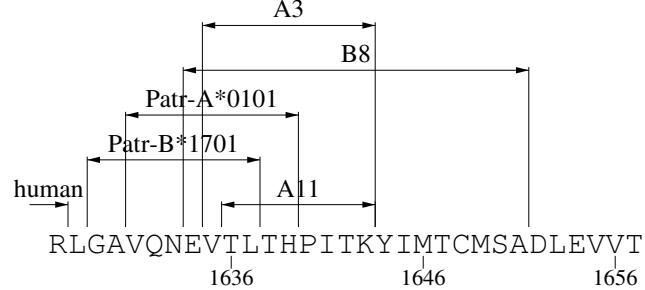


Figure 36: NS3 CTL Map 13, aa 1627-1657



7 NS4a CTL Epitope Map

Figure 37: NS4a CTL Map 1, aa 1658-1707

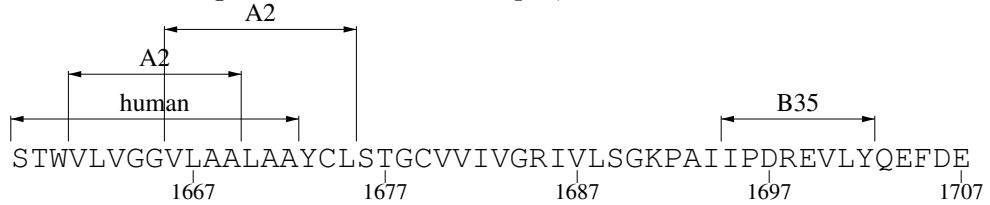


Figure 38: NS4a CTL Map 2, aa 1708-1711

MEEC
1711

8 NS4b CTL Epitope Map

Figure 39: NS4b CTL Map 1, aa 1712-1761

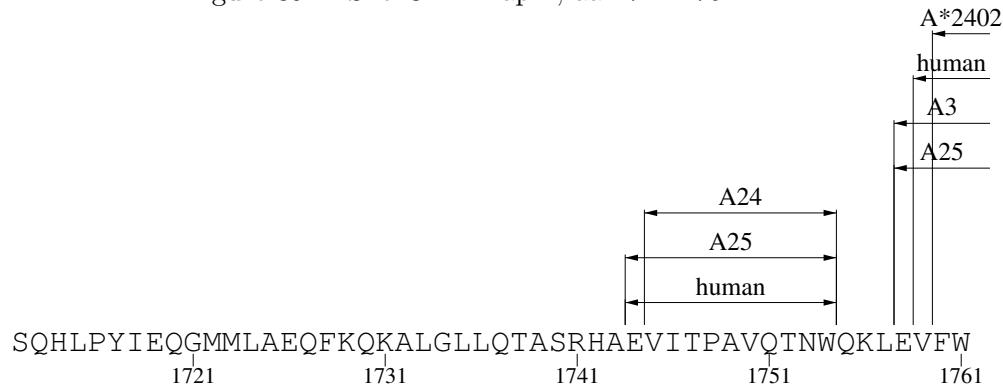


Figure 40: NS4b CTL Map 2, aa 1762-1811

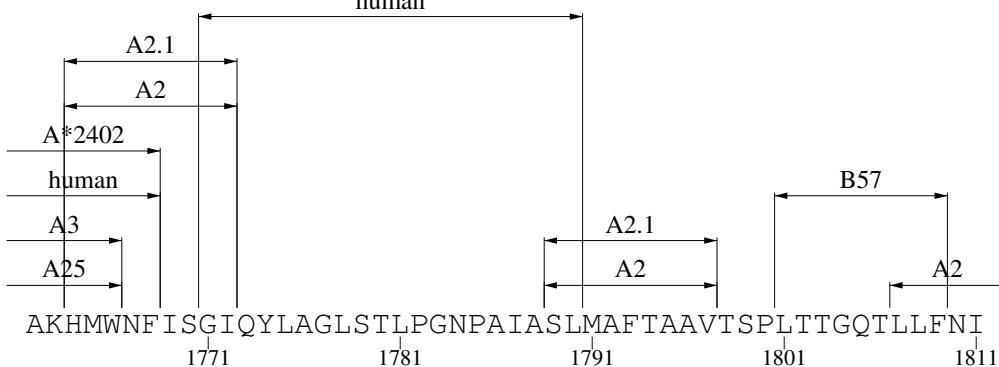


Figure 41: NS4b CTL Map 3, aa 1812-1861

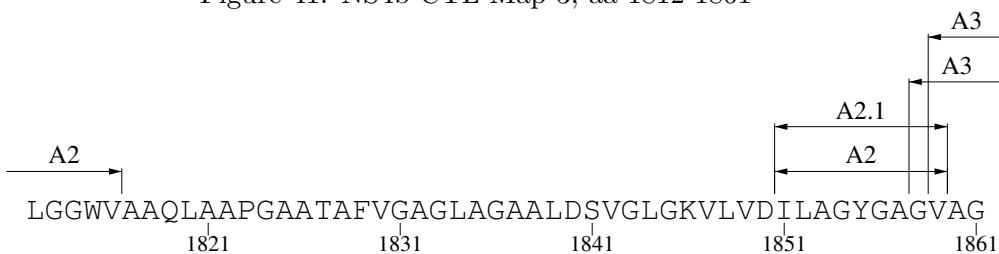


Figure 42: NS4b CTL Map 4, aa 1862-1911

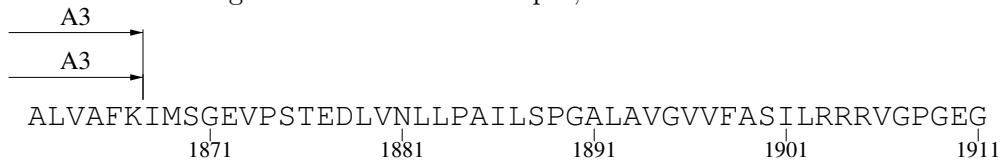


Figure 43: NS4b CTL Map 5, aa 1912-1961

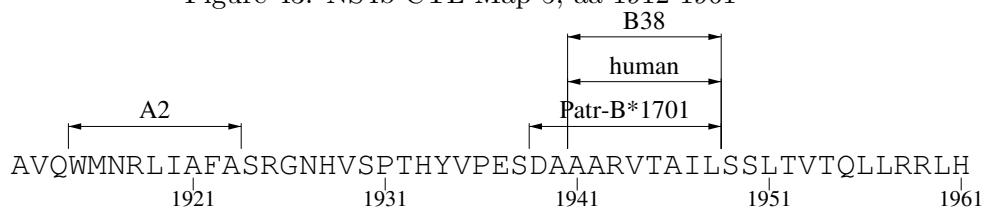
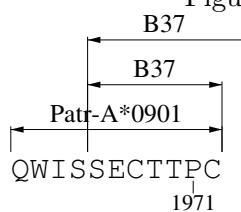


Figure 44: NS4b CTL Map 6, aa 1962-1972



9 NS5a CTL Epitope Map

Figure 45: NS5a CTL Map 1, aa 1973-2022

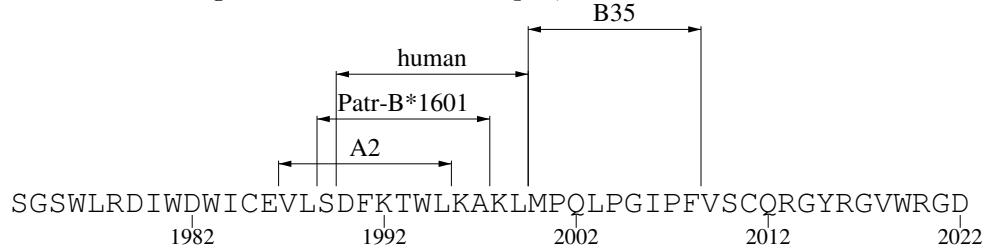


Figure 46: NS5a CTL Map 2, aa 2023-2072



Figure 47: NS5a CTL Map 3, aa 2073-2122

LPAPNYKFALWRVSAEYYVEIRRVDHYVSGMTTDNLKCPCQIPSPEFF
2082 2092 2102 2112 2122

Figure 48: NS5a CTL Map 4, aa 2123-2172

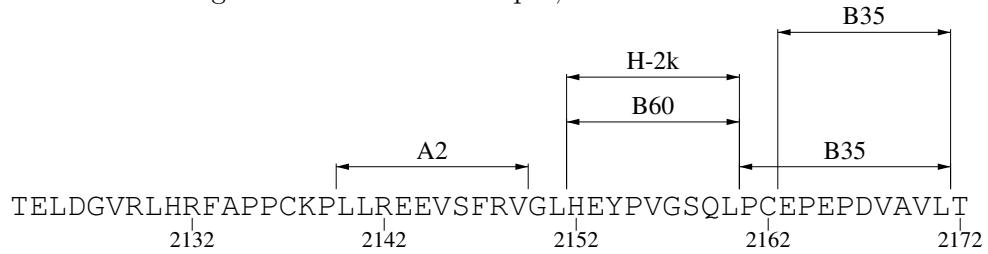


Figure 49: NS5a CTL Map 5, aa 2173-2222

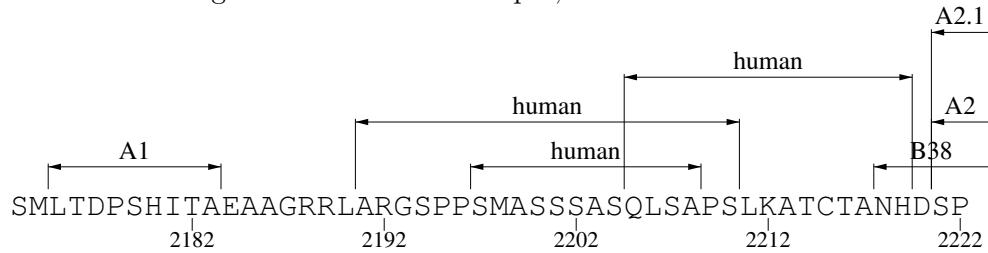


Figure 50: NS5a CTL Map 6, aa 2223-2272

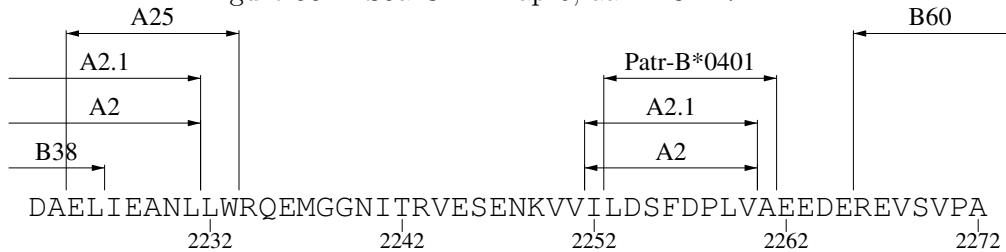


Figure 51: NS5a CTL Map 7, aa 2273-2322

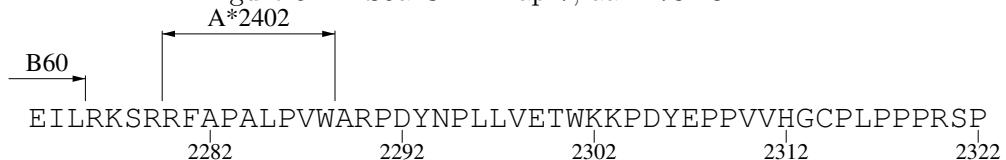


Figure 52: NS5a CTL Map 8, aa 2323-2372

PVPPPRKKRTVVLTESTLPTALAE LATKSFGSSSTSGITGDNTTSSEPA
2332 2342 2352 2362 2372

Figure 53: NS5a CTL Map 9, aa 2373-2420

PSGCPPDSDVESYSSMMPLEGEPEGDPDLSDGSWSTVSSGADTEDVVCC
2382 2392 2402 2412

10 NS5b CTL Epitope Map

Figure 54: NS5b CTL Map 1, aa 2421-2470

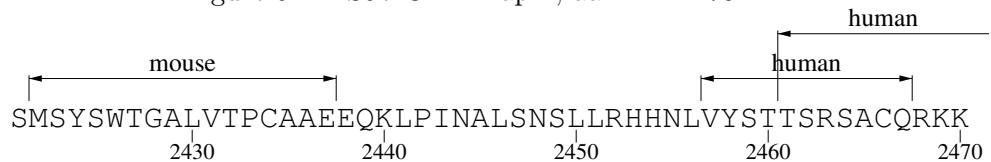


Figure 55: NS5b CTL Map 2, aa 2471-2520

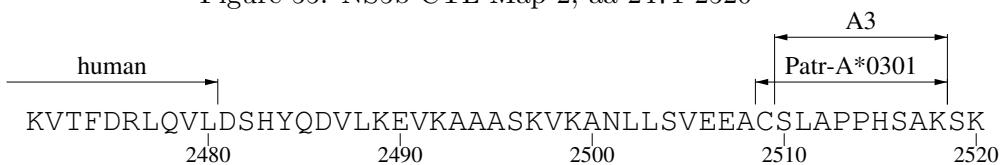


Figure 56: NS5b CTL Map 3, aa 2521-2570

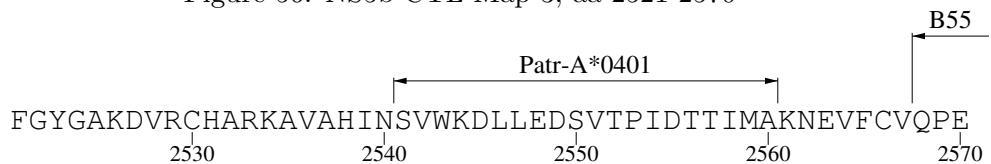


Figure 57: NS5b CTL Map 4, aa 2571-2620

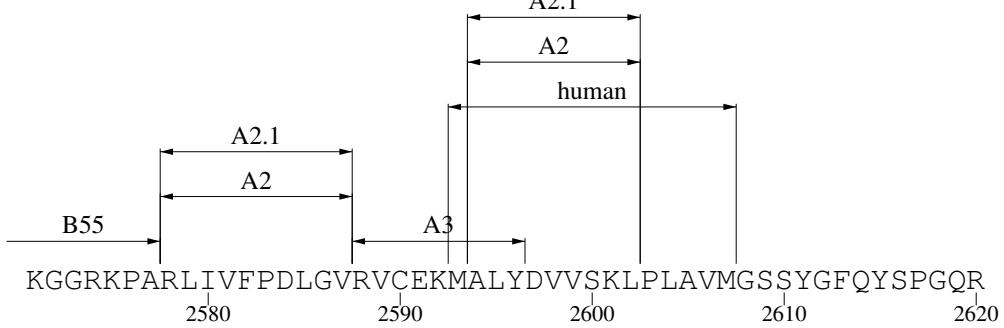


Figure 58: NS5b CTL Map 5, aa 2621-2670



Figure 59: NS5b CTL Map 6, aa 2671-2720

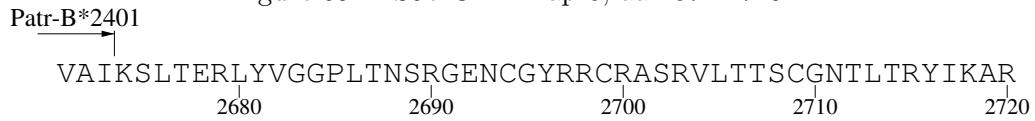


Figure 60: NS5b CTL Map 7, aa 2721-2770



Figure 61: NS5b CTL Map 8, aa 2771-2820

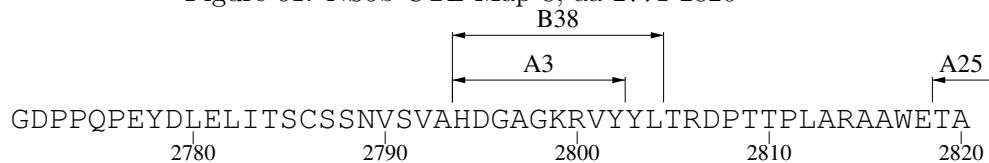


Figure 62: NS5b CTL Map 9, aa 2821-2870

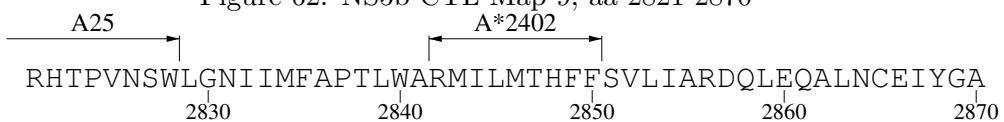


Figure 63: NS5b CTL Map 10, aa 2871-2920

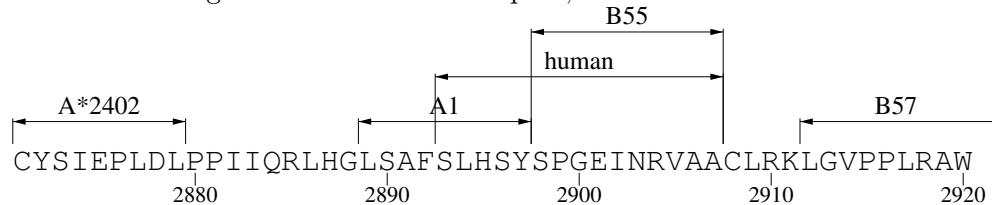


Figure 64: NS5b CTL Map 11, aa 2921-2970

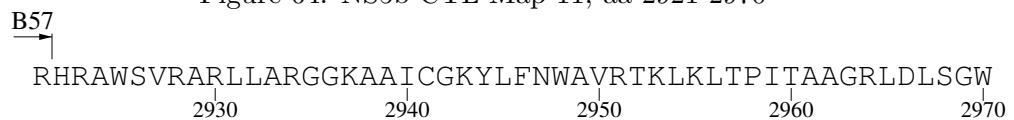


Figure 65: NS5b CTL Map 12, aa 2971-3011

